Solving Systems Notes Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The perimeter of a rectangle is 68 ft. and its width is 8/9 times its length. Find the dimensions of the rectangle.

2. You set up a business and make an initial investment of $10,000. The unit cost of the product is $2.85 and the selling price is $4.95. How many units must you sell to break even?

3. You are offered two different jobs. Company A offers an annual salary of $22,500 plus a year-end bonus of 1.5% of your total sales. Company B offers an annual salary of $20,000 plus a year-end bonus of 2% of your total sales. How much would you need to sell before Company B becomes a better offer?

4. You want to invest $50,000 in two different bonds yielding 8% and 12%. You want to have $5,500 interest coming in each year. How much do you need to invest in each fund?